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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 [Astrolabe: A robust and scalable technology for distributed system monitoring, management, and data mining](#)



Robbert Van Renesse, Kenneth P. Birman, Werner Vogels

 May 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 2

Publisher: ACM Press

Full text available: [pdf\(341.62 KB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track sys ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

3 [Group communication specifications: a comprehensive study](#)



Gregory V. Chockler, Idid Keidar, Roman Vitenberg

 December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4

Publisher: ACM Press

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Relevance scale ☐ ☐ ☐ ☐ ☐**1 Planet scale software updates**

Christos Gkantsidis, Thomas Karagiannis, Milan Vojnovic

August 2006 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2006 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '06**, Volume 36 Issue 4

Publisher: ACM Press

Full text available: [pdf\(1.19 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Fast and effective distribution of software updates (a.k.a. patches) to millions of Internet users has evolved into a critical task over the last years. In this paper, we characterize "Windows Update", one of the largest update services in the world, with the aim to draw general guidelines on how to best design and architect a fast and effective planet-scale patch dissemination system. To this end, we analyze an extensive set of data traces collected over the period of a year, consisting of bill ...

Keywords: caching, peer-to-peer, software updates**2 Relevancy-based access control and its evaluation on versioned XML documents**

Mizuho Iwaihara, Ryotaro Hayashi, Somchai Chatvichienchai, Chutiporn Anutariya, Vilas Wuwongse

February 2007 **ACM Transactions on Information and System Security (TISSEC)**, Volume 10 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.00 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Integration of version and access control of XML documents has the benefit of regulating access to rapidly growing archives of XML documents. Versioned XML documents provide us with valuable information on dependencies between document nodes, but, at the same time, presenting the risk of undesirable data disclosure. In this article, we introduce the notion of relevancy-based access control, which realizes protection of versioned XML documents by various types of relevancy, such as version dep ...

Keywords: Access control, XML, XPath, query language, security, version control**3 RBAC for Collaborative Environments: An infrastructure for managing secure update operations on XML data**

Elisa Bertino, Giovanni Mella, Gianluca Correndo, Elena Ferrari

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